

AUG. 5. 2004 8:15AM BASF SOUTHFIELD PATENT DEPT

No. 1662 P. 5

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PATENT  
(Docket No. IN-9510CIP-2)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Koichi TAKAMURA

Serial No.: 10/828,457

Filed: April 20, 2004

For: Inorganic-Organic Polymer  
Nanocomposite and Methods for  
Making and Using

Commissioner for Patents

PO Box 1450

Alexandria, VA 22313-1450

Group Art Unit: 1714

Examiner:

I hereby certify that the attached correspondence is being transmitted  
via facsimile addressed to Commissioner for Patents, PO BOX 1450,  
Alexandria, VA 22313-1450, on the date shown below to facsimile  
number 1-703-872-9306.

8-5-2004  
Date

Michael Morgan  
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OFFICIAL

**RESPONSE TO NOTICE REGARDING BENEFIT/PRIORITY CLAIM(S)**

In response to the Notice mailed on July 30, 2004, the priority for the current application is given below.

The present application is a continuation-in-part of U.S. Serial No. 10/332,894, filed on 14 January 2003.

U.S. Serial No. 10/332,894 is a national stage application of PCT/US02/33343, filed on 18 June 2002, and PCT/US01/44988, filed on 20 November 2001.

PCT/US02/33343 is a continuation-in-part of PCT/US01/44988.

PCT/US01/44988 claims priority to U.S. Serial No. 09/790,273, filed 21 February 2001, and to U.S. Serial No. 60/256,709, filed 18 December 2000.

Enclosed are copies of the first page of the PCT publications for PCT/US01/44988 and PCT/US02/33343 that show the above priority claims.

Should there be any questions about the above remarks, the undersigned attorney would welcome a telephone call.

Respectfully submitted,

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Date: August 5, 2004

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
27 June 2002 (27.06.2002)

PCT

(10) International Publication Number  
**WO 02/50189 A1**

(51) International Patent Classification<sup>7</sup>: C08L 95/00. (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GI, GM, HR, HU, ID, IL, IN, IS, JP, KB, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(21) International Application Number: PCT/US01/44988

(22) International Filing Date:  
20 November 2001 (20.11.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/256,709 18 December 2000 (18.12.2000) US  
09/790,273 21 February 2001 (21.02.2001) US

(71) Applicant (*for all designated States except US*): BASF CORPORATION [US/US]; Patent Department, 26701 Telegraph Road, Southfield, MI 48034-2442 (US).

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(84) Designated States (*regional*): ARIPO patent (GII, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Declaration under Rule 4.17:

*as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for all designations*

## Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*



**WO 02/50189 A1**

(54) Title: ASPHALT-BASED FORMULATIONS AND METHOD OF MAKING AND USING SAME FOR PAVING APPLICATIONS

(57) Abstract: The present invention is an asphalt-based, cold paving formulation that provides increased flexibility with respect to the choice of aggregate types, asphalt emulsion types, type and amount of the surfactants used to produce the asphalt emulsion, asphalt emulsion pH's and application temperature's than conventional cold paving formulations while providing good mix times and curing behavior. The present invention includes an asphalt-based formulation formed by mixing aggregate; water; an asphalt emulsion; at least one first compound in aqueous solution selected from the group consisting of alkali metal salts, alkali metal hydroxides, ammonium salts and ammonium hydroxide; and at least one second compound in aqueous solution selected from the group consisting of Group IIA salts, Group IIIA salts, Group IIIB salts, copper salts, zinc salts, cadmium salts, manganese salts, iron salts, cobalt salts and nickel salts. The present invention also includes a method of preparing an asphalt-based formulation using these components.

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau(43) International Publication Date  
12 June 2003 (12.06.2003)

PCT

(10) International Publication Number  
**WO 03/048256 A1**

(51) International Patent Classification<sup>7</sup>: C08L 95/00,  
C08K 3/00

[US/US]; 12603 Tucker Crossling Lane, Charlotte, NC 28273 (US). MORMILE, Patrick [US/US]; 5800 Avlon Valley Drive, Charlotte, NC 28277 (US).

(21) International Application Number: PCT/US01/33343

(74) Agents: GOLOTA, Mary et al.; Basf Corporation, 26701 Telegraph Road, Southfield, MI 48034-2442 (US).

(22) International Filing Date: 18 June 2002 (18.06.2002)

(25) Filing Language:

English

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, IL, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KB, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW

(26) Publication Language:

English

(30) Priority Data:  
PCT/US01/44988

29 November 2001 (29.11.2001) US

(63) Related by continuation (CON) or continuation-in-part (CIP) to earlier application:

US PCT/US01/44988 (CIP)  
Filed on 29 November 2001 (29.11.2001)(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).(71) Applicant (*for all designated States except US*): BASF CORPORATION [US/US]; Patent Department, 26701 Telegraph Road, Southfield, MI 48034-2442 (US).

## Published:

— with international search report

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): TAKAMURA, Koichi [JP/US]; 435 South Tryon Street, Charlotte, NC 28202 (US). GOLZAR, Babak [IR/US]; 9800 Merimque Place, Charlotte, NC 28270 (US). ADAMS, Vanessa**WO 03/048256 A1**

(54) Title: ASPHALT-BASED FORMULATIONS AND METHOD OF MAKING AND USING SAME FOR PAVING AND COATING APPLICATIONS

(57) Abstract: An asphalt-based, cold paving/coating formulation that provides increased flexibility with respect to the choice of aggregate types, asphalt emulsion types, type and amount of the surfactants used to produce the asphalt emulsion, asphalt emulsion pH's and application temperature's than conventional cold paving/coating formulations while providing good mix times and curing behavior. The asphalt-based formulation can be formed by mixing water; an asphalt emulsion; at least one first compound in aqueous solution selected from the group consisting of alkali metal salts, alkali metal hydroxides, ammonium salts, and ammonium hydroxide; at least one second compound in aqueous solution selected from the group consisting of Group IIA salts, Group IIIA salts, Group IIIB salts, copper salts, zinc salts, cadmium salts, manganese salts, iron salts, cobalt salts, and nickel salts; and optionally aggregate. Also, a method of preparing an asphalt-based formulation using these components.